

# High School to College Articulation Map

**Area of Study:** Trade & Technical Education

**Pathway:** Mechanics & Repairs-Electronics

**National Career Cluster:** Architecture & Construction

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| <b>Region:</b> Mountainland <b>District(s):</b> Alpine, Provo, Nebo, Wasatch, No. Summit, So. Summit, Park City<br><b>School :</b> <b>REGIONAL AGREEMENT</b><br><b>Contact person:</b> Lisa Birch <b>Ph.#:</b> 801-492-2900<br><b>e-mail:</b> <a href="mailto:lisa.birch@mountainlandatc.org">lisa.birch@mountainlandatc.org</a> <b>Date:</b> 10/04/06 | <b>College / Institution:</b> Utah Valley State College<br><b>Articulation Agreement in place?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><b>Name of Degree or Certificate:</b> AAS in Electrical Automation And Robotics Technology<br>(63-65 Credits Required) |
|--|--|

| High School |   |             |                 | College  |  |         |
|-------------|---|-------------|-----------------|----------|--|---------|
| Course #    | High School Suggested Courses   | H.S. Credit | College Credits | Course # | College General Education Requirements                                 | Credits |
| ENGL        | ENGLISH   |             |                 | ENGL     | ENGLISH  | 2       |
|             |   |             |                 | ENGL106A | Career Writing for Technology—A (2.0)                                  |         |
| MATH        | MATHEMATICS   |             |                 | MATH     | MATHEMATICS  | 5       |
|             |   |             |                 | EART1050 | Applied Electrical Math  |         |
|             | <b>HUMANTIES/FINE ARTS</b><br>Complete one course from the following: |             | 3               |          | <b>HUMANITIES/FINE ARTS</b><br>Complete one course from the following: | 3       |
| HUM1010     | Humanities * **   | 1           |                 | HUM1010  | Humanities Through the Arts (recommended)                              |         |
| COMM1020    | Public Speaking **  | 1           |                 | COM1020  | Public Speaking  |         |
| ART1010     | Art/Art Foundations *   | 1           |                 | ART1010  | Introduction to Visual Arts  |         |
| 50.0406     | Photo II *  | .50         |                 | ART1050  | Photography I  |         |
| ART1110     | AP Drawing *  | 1           |                 | ART1110  | Drawing I  |         |
| ART1340     | 3-D Design II *   | 1           |                 | ART1340  | Sculpture I  |         |
| ART1350     | Ceramics II *   | 1           |                 | ART1350  | Ceramics I   |         |
| ARTH2720    | Art History *   | 1           |                 | ARTH2720 | History of Art from the Renaissance                                    |         |
| MUSC1010    | Music Appreciation *  | 1           |                 | MUSC1010 | Introduction to Music  |         |
| THEA1013    | Introduction to Theater **  | 1           |                 | THEA1013 | Introduction to Theater  |         |
| THEA1023    | Film/Video Production I or II *                                       | 1           |                 | THEA1023 | Introduction to Film   |         |
|             |   |             |                 | →        | Any other approved Humanities/ Fine Arts distribution course           |         |

|  |   |    |          |                       |   |           |
|--|---|----|----------|-----------------------|---|-----------|
|  | <b>SOCIAL/BEHAVIORAL/POLITICAL SCIENCE</b><br>Complete one course from the following: |    | <b>3</b> |                       | <b>SOCIAL/BEHAVIORAL/POLITICAL SCIENCE</b><br>Complete one course from the following: | <b>3</b>  |
| GEOG1300   | Survey of World Geography **  | 1  |          | GEOG1300              | Survey of World Geography   |           |
| HIST1100   | History of Civilization *   | 1  |          | HIST1100              | History of Civilization I   |           |
| HIST1700   | AP US History *   | 1  |          | HIST1700              | American Civilization   |           |
| 52.0211  | Business Management *   | .5 |          | MGMT1010              | Introduction to Business  |           |
| MGMT2020   | Macroeconomics **   | 1  |          | MGMT2020              | Macroeconomics  |           |
| POLS1100   | American National Government **   | 1  |          | POLS1100              | American National Government  |           |
| PSY1010  | AP Psychology * Gen. Psych. **  | 1  |          | PSY1010               | General Psychology  |           |
| SOC1010  | Sociology * Intro to Sociology **   | 1  |          | SOC1010               | Introduction to Sociology   |           |
|  |   |    |          | →                     | Any other approved Social/Behavioral Science distribution course                      |           |
|  | <b>BIOLOGY/PHYSICAL SCIENCE</b><br>Complete one course from the following:            |    | <b>2</b> |                       | <b>BIOLOGY/PHYSICAL SCIENCE</b><br>Complete one course from the following:            | <b>2</b>  |
| BIOL1010   | AP Biology * Gen. Biology **  | 1  |          | BIOL1010              | General Biology   |           |
| GEO1010  | Geology * Intro. To Geology **  | 1  |          | GEO1010               | Introduction to Geology   |           |
| PHYS1010   | Physics Honors/Engr. I *  | 1  |          | PHYS1010              | Elementary Physics  |           |
| PHYS1040   | Astronomy *   | 1  |          | PHYS1040              | Elementary Astronomy  |           |
|  |   |    |          | →                     | Any other approved Biology/Physical Science distribution course                       |           |
|  | <b>PHYSICAL ED./HEALTH/SAFETY OR ENVIRONMENT</b>                                      |    | <b>1</b> |                       | <b>PHYSICAL ED./HEALTH/SAFETY OR ENVIRONMENT</b>                                      | <b>1</b>  |
| HLTH1100   | Personal Health & Wellness **   | 1  |          | HLTH1100              | Personal Health & Wellness  |           |
|  |   |    |          | →                     | Any other approved Physical Ed./Heath/Safety or Environment distribution course       |           |
| H.S.Total (General Ed.)And Other Available Credits |   |    | <b>9</b> | College Total Credits |   | <b>16</b> |

| Course CIP #  | High School Career Pathway Courses (min. 2 Required)  | H.S. Credit | College Credits | Course #  | College Major Course Requirements  | Credits          |
|---|---|-------------|-----------------|---|--|------------------|
|   | Students may select individual courses for exploration or complete pathway for an in-depth focus. |             |                 |   |  |                  |
|   | <b>Foundation Courses: (1.50required)</b>   |             |                 |   |  |                  |
| 47.0105   | Electronics I +   | .50         |                 | +   | See major core requirements below  |                  |
| 47.0105   | Digital Electronics +   | 1.00        |                 | +   | See major core requirements below  |                  |
|   | <b>Elective Courses:</b>  |             |                 |   |  |                  |
| 32.0199   | <b>Student Internship (Critical Workplace Skills)</b>   | .50         |                 |   |  |                  |
|   | +ECT1010 and ECT101L are taught concurrently with HS Pathway CIP47.0105 used.                     |             | <b>4</b>        | EART1130 or ECT1010+ or<br><br>ECT1060 and ECT1070    | Basic Electrical (4.0) or<br>Basic Electronics—DC/AC—correlates with HS Pathway CIP47.0105 above (4.0) or<br>Electrical Science (2.0) and<br>Electrical Science (2.0)                  | <b>4</b>         |
|   |   |             |                 | EART1180 or ECT101L+<br><br>ECT106L and ECT107L       | Basic Electrical Lab (5.0) or<br>DC/AC Circuits Laboratory—correlates with HS pathway CIP47.0105 above (2.0) or<br>Electrical Science I Laboratory<br>Electrical Science II Laboratory | <b>.5<br/>.5</b> |
|   |   |             |                 | EART1260  | Logic  | <b>2</b>         |
|   |   |             |                 | EART2110  | Semiconductors Devices   | <b>6</b>         |
|   |   |             |                 | EART2160  | Industrial Solid State Circuit   | <b>5</b>         |
|   |   |             |                 | EART2260 or ECT1150 and ECT1160                       | Advanced Logic or<br>Digital Devices and Circuits (3.0) and<br>Digital Devices and Circuits Laboratory (2.0)   | <b>3</b>         |
|   |   |             |                 |   | <b>EMPHASIS:</b> Complete one of the following:  |                  |
|   |   |             |                 |   | Electrical Automation  | <b>26</b>        |
|   |   |             |                 |   | Semiconductor Instrumentation and Maintenance  | <b>28</b>        |
|   |   |             |                 |   | --see UVSC Advisor for list of classes--   |                  |
| <b>Total Pathway Credits</b>                                  |   |             | <b>4</b>        | <b>Total Major Course Credits Required w/emphasis</b> |  | <b>47-49</b>     |
| <b>TOTAL Potential(college) Credits Earned in High School</b> |   |             | <b>13</b>       | <b>TOTAL Credits Required for Major</b>               |  | <b>63-65</b>     |

**Note:** This is a regional agreement. Some classes and some concurrent enrollment agreements may not be available in your particular high school. See your individual school for specific program offering. Also, District CIP codes may differ, contact your district for specific CTE class offerings.

**Note:** \*= concurrent    \*\*= distant